| **Information Technology Group Equipment Replacement** | **FY2003 Request:** | **$5,904,400** |
|---|---|---|
| | **Reference No:** | **35787** |

**AP/AL:** Appropriation   **Project Type:** Information Systems
**Category:** General Government
**Location:** Statewide   **Contact:** Dan Spencer
**Election District:** Statewide   **Contact Phone:** (907)465-5655
**Estimated Project Dates:** 07/01/2002 - 06/30/2007

**Brief Summary and Statement of Need:**
Funding will be used to purchase the highest priority equipment, including hardware and software, to meet anticipated customer demand.

**Funding:**

| | FY2003 | FY2004 | FY2005 | FY2006 | FY2007 | FY2008 | Total |
|---|---|---|---|---|---|---|---|
| Info Svc | $5,904,400 | $5,000,000 | $6,000,000 | $6,500,000 | $7,000,000 | | $30,404,400 |
| Total: | $5,904,400 | $5,000,000 | $6,000,000 | $6,500,000 | $7,000,000 | $0 | $30,404,400 |

| | | | |
|---|---|---|---|
| ☐ State Match Required | ☐ One-Time Project | ☐ Phased Project | ☒ On-Going Project |
| 0% = Minimum State Match % Required | | ☐ Amendment | ☐ Mental Health Bill |

**Operating & Maintenance Costs:**

| | Amount | Staff |
|---|---|---|
| Total Operating Impact: | 0 | 0 |
| One-Time Startup Costs: | 0 | |
| Additional Estimated Annual O&M: | 0 | 0 |

**Prior Funding History / Additional Information:**
ITG Equipment Replacement funding in the amount of $2,181.0 was appropriated for FY2002. $3,141.0 was appropriated for FY2001. $3,500.0 was appropriated for FY2000. Funding between FY1996 and FY1999 totalled $6,371.0.

This is an ongoing, annual appropriation request.

The purpose of this project is to purchase/lease the top priority equipment and services that will meet current and expected customer demand, within the amount collected through rates for depreciation. These equipment expenditures will maximize federal participation in this internal service fund.

The Information Technology Group strives to stay abreast of available technology and understanding of the division's customer needs. The division prioritizes equipment replacement through knowledge of customer needs, technological improvements in the industry, and based on available funding through rates. The division generally stays within two releases of software in order to avoid obsolescence of both hardware and software. The division's fixed asset investment is approximately $40 million. This project represents upgrades or replacements of 5% of this investment. Purchases may include:

$200.0 Computer Environmental Equipment Replacement – this project will encompass environmental components such as: uninterruptible power supply systems (UPS), UPS batteries, air conditioners, and associated local/remote monitoring and alarm systems.

$1,300.0 Computer Services Software Replacement/Upgrades – Replacement and upgrading of ITG computer software used in providing core-computing services. This umbrella project will encompass software that supports mainframe and open systems (Unix and Windows servers) in the areas of functionality, performance, reporting, and security in order to keep up with the latest technological improvements. Replacement or upgraded software could be in the areas of database, transactional systems, open technologies, security, internet services, storage management, monitoring and reporting, computer application, remote access, or automation. This software is used to support all state agencies and non-state entities requiring connectivity to the State of Alaska computing service offerings. Consulting services may be obtained as necessary.

$500.0 Non-mainframe Computing – Provide for the replacement, upgrading and maintenance of the ITG Open Systems (mid-tier) hardware components (Unix/Windows) used in providing centralized non-mainframe computing support to state agencies.

$500.0 Mainframe Disk upgrade – This replacement/upgrade will increase the disk storage available on the mainframe computer as necessary to meet the growing needs of State Agencies.

$2,764.4 SATS (State of Alaska Telecommunication System) site upgrades including shelter, tower, radio and battery and other power source upgrades/replacements.  The State currently operates and maintains 130+ SAT's sites with an average equipment upgrade cost of approximately $275,000 per site. This figure includes shelters, tower, microwave radio, battery, multiplex equipment, back-up power capability, transportation and labor costs. Assuming a replacement schedule of 16 years for a site the yearly cost of upgrades on a an ongoing basis is $2,234,375.  Additionally, the State utilizes DAC's equipment in Anchorage, Fairbanks, Glennallen and Sterling. The DAC's equipment at Anchorage and Fairbanks is in need of replacement to keep up with current technology. The minimum cost of replacement of this equipment is $265,000 per location. This includes equipment and labor costs. The equipment needs to be replaced simultaneously with the SAT's upgrade. The advantage to this replacement is that the State will realize additional efficiency using a packet-based architecture.

$65.0 Monitoring and testing equipment related to services being provided by SATS.  This equipment will allow staff to trouble shoot and possibly resolve problems related to remote areas while remaining in Anchorage.  Will also allow ITG staff to monitor performance and utilization of the system as a whole.

$480.0 Two-way radio site upgrades including shelter, tower, radio and battery and other power source upgrades/replacements.  These sites are independent of SATS sites and are key to providing communications during times of natural disasters (fire, avalanche, flood, etc). These sites are primarily rural sites and are in desperate need of repair. This request is for 24 sites at $120,000 per site. Due to the critical nature and desperate need of attention that these sites require the replacement schedule includes four sites per year.

$95.0 Monitoring and testing equipment related to two-way services being provided by the State. This equipment will allow staff to trouble shoot and possibly resolve problems related to remote areas while remaining in Anchorage, Fairbanks, Glennallen or Juneau.  Will also allow ITG staff to monitor performance and utilization of the system as a whole.

Purchase and upgrade of equipment will enable ITG to provide and monitor services to all state agencies and the public on a 7x24 basis. These services directly provide support to a number of state agencies responsible for life, safety, and health services.